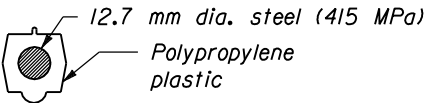


REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

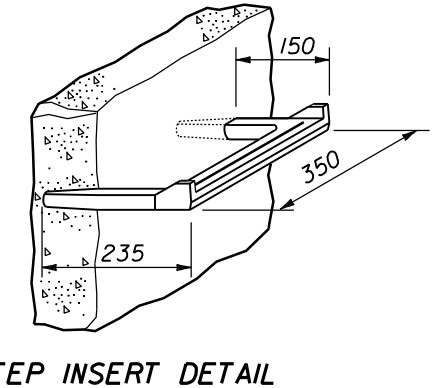
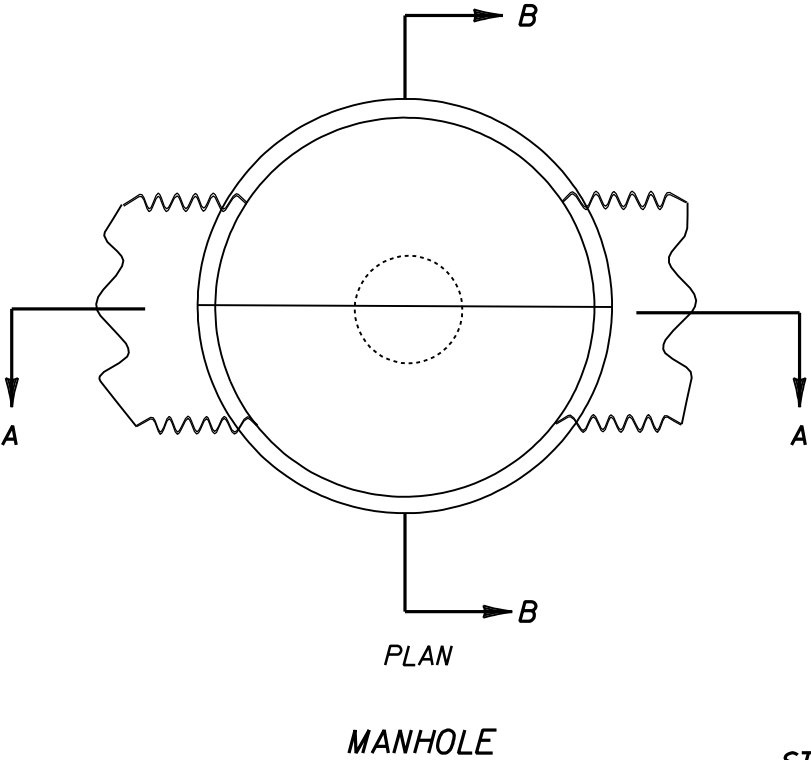
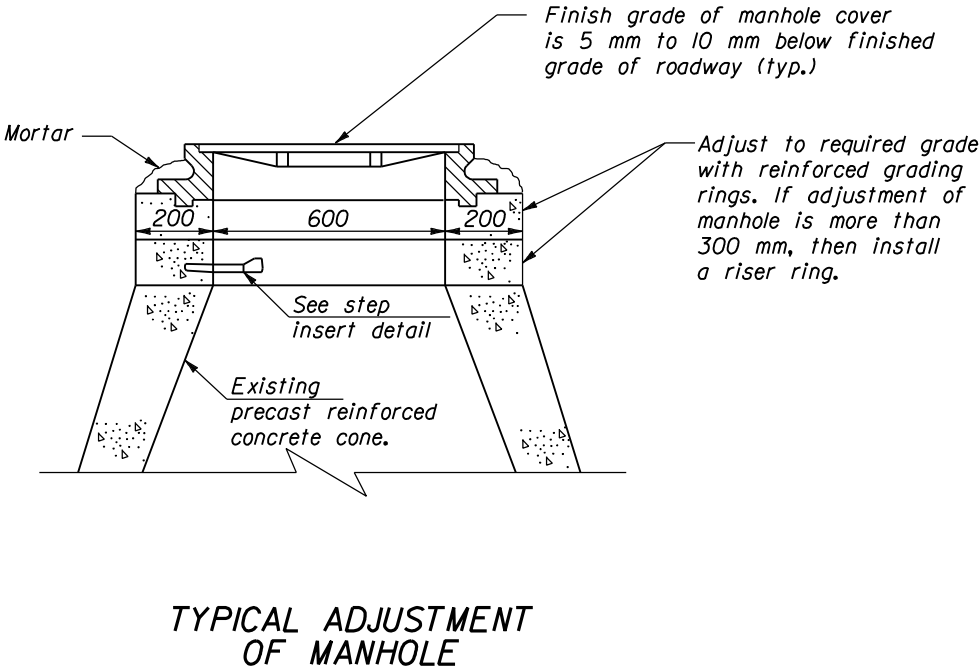
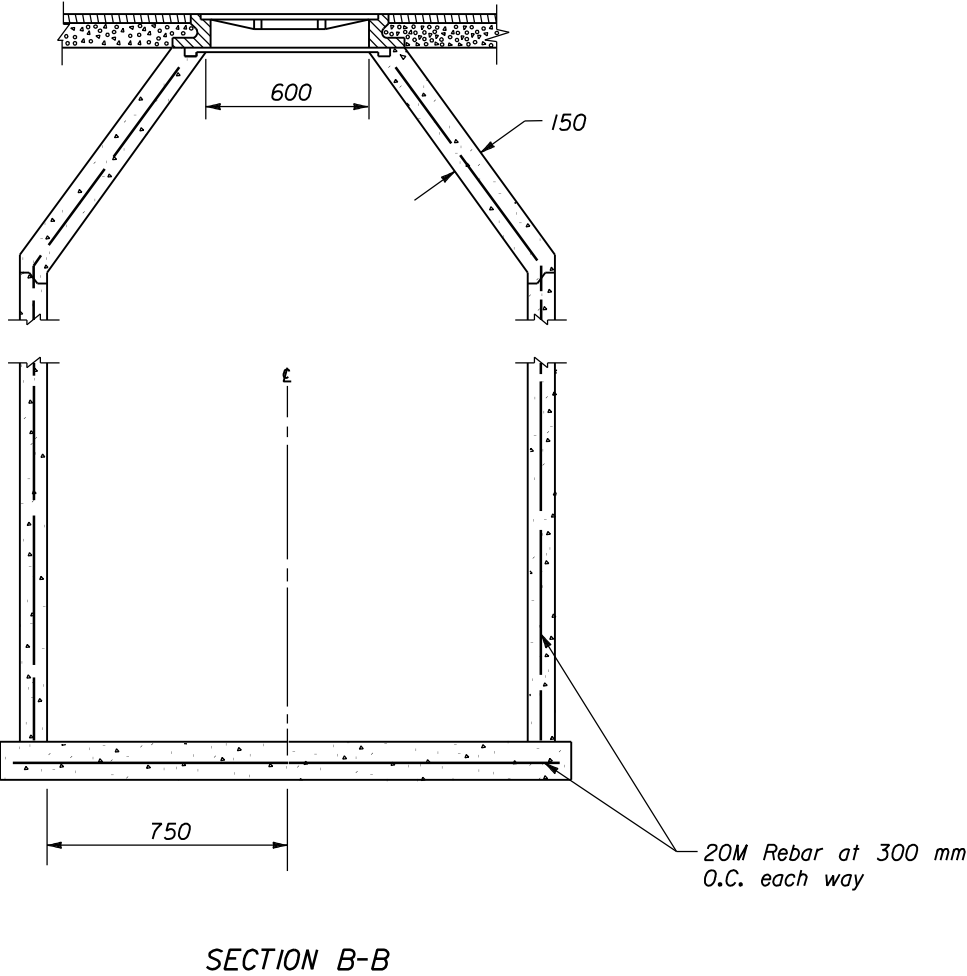
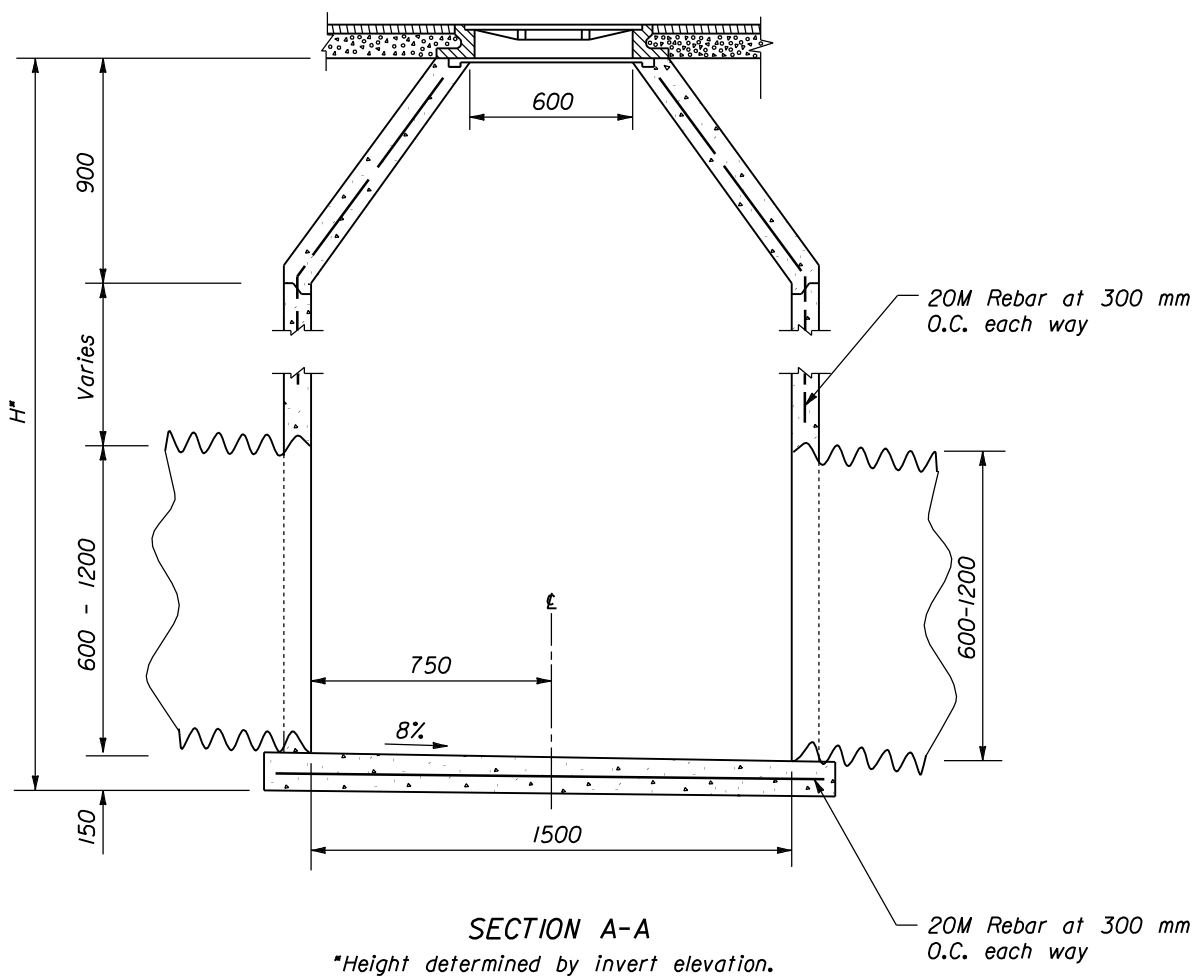
NOTE:

1. Loading: MS 18.
2. Structural Steel: ASTM A36.
3. Bolts & Washers: ASTM 307, nongalvanized.
4. Threaded Concrete Anchors: Ferrule loop inserts for M10 bolt or approved equal.
5. Headed Concrete Anchors: Weld to frame with a full penetration butt weld.
6. Welding: Weld according to Section 555. Seal weld all joints unless otherwise indicated with a minimum size fillet weld, based on material thickness. Grind smooth all contact surfaces.
7. Concrete: Furnish concrete conforming to Section 601. Chamfer all exposed edges and corners 20 mm.
8. Reinforcing Steel: Furnished conforming to AASHTO M 31M, Grade 420
9. Foundation Steel: Will be inspected and approved by the CO prior to pouring the floor.
10. Inlets: Construct inlets with horizontal tops unless otherwise directed by the CO at locations where a sloping top and grating will fit adjacent ground slopes.
11. Estimated Mass: Frame and grate, 190 Kg.
12. Steps- none required where "H" is less than 750 mm. Where "H" is 750 mm or more, install steps with lowest rung 300 mm above the floor, and the highest rung not more than 150 mm below top of inlet. Space steps at uniform intervals not to exceed 300 mm. Place steps in the wall without an opening use only step inserts that comply with State Industrial requirements.
13. Dimensions not labeled are in millimeters.



TYPICAL SECTION
(STEP INSERT)

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
METRIC DETAIL	
MANHOLE	
DETAIL APPROVED FOR USE 07/2004	DETAIL
REVISED:	CM604-51



NO SCALE